PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FWA3-19	FOR FURTHER ACTIO	cation of Transmittal of International Examination Report (Form PCT/IPEA/416)							
nternational application No. PCT/JP2003/009027	International filing date (date 16 July 2003 (16.		Priority date (day/month/year) 17 July 2002 (17.07.2002)						
nternational Patent Classification (IPC) or n D01F 9/133, C01B 31/02	ational classification and IPC		·						
Applicant BUSSAN	I NANOTECH RESEA	RCH INSTIT	UTE INC.						
and is transmitted to the applicant a	eccording to Afficie 50.	•	national Preliminary Examining Authority						
2. This REPORT consists of a total of	sheet.								
This report is also accompany		ets of the descript	tion, claims and/or drawings which have been cations made before this Authority (see Rule						
These annexes consist of a t	total ofshee	ets.							
3. This report contains indications relating to the following items: I Basis of the report									
							II Priority		
III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV Lack of unity of invention V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application									
						VIII Certain observati	ons on the international appl	ication	
						Date of submission of the demand		Date of completi	
						21 November 2003 (2	1.11.2003)	2	4 August 2004 (24.08.2004)
Name and mailing address of the IPEA/JP		Authorized offic	er						
Facsimile No.		Telephone No.							

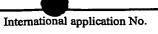
Translation

International application No.

PCT/JP2003/009027

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I. B	asis o	of the rep	port
		-	the elements of the international application:*
ľ	$\overline{\mathbf{X}}$	_	national application as originally filed
ř	Ħ	the desc	ription:
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		pages	, filed with the demand
		pages	, filed with the letter of
ſ		the clair	ns:
١		pages	, as originally filed
		pages	, as amended (together with any statement under Article 19
		pages	, mod with the definition
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2.	11 1.	nternation se element the lan	o the language, all the elements marked above were available or furnished to this Authority in the language in which nal application was filed, unless otherwise indicated under this item. Its were available or furnished to this Authority in the following language which is: Inguage of a translation furnished for the purposes of international search (under Rule 23.1(b)). Inguage of publication of the international application (under Rule 48.3(b)). Inguage of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/
3.	Wit	h =====d	to any nucleotide and/or amino acid sequence disclosed in the international application, the international examination was carried out on the basis of the sequence listing:
	pici		ned in the international application in written form.
1	Ħ		ogether with the international application in computer readable form.
	П		hed subsequently to this Authority in written form.
Ì		furnis	hed subsequently to this Authority in computer readable form.
		The s	statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the ational application as filed has been furnished.
		The s	statement that the information recorded in computer readable form is identical to the written sequence listing has furnished.
4	. [The a	mendments have resulted in the cancellation of:
-			the description, pages
			the claims, Nos.
		Ш	the drawings, sheets/fig
5	. <u> </u>	This r	eport has been established as if (some of) the amendments had not been made, since they have been considered to go d the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
1	in	this repo	t sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to ort as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16
\.	and An	1 70.17). y replace	ment sheet containing such amendments must be referred to under item $\it 1$ and annexed to this report.



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PCT/JP03/09027

Statement			
Novelty (N)	Claims	1-11	YE
	Claims		NO
Inventive step (IS)	Claims	1-11	YE
	Claims		
Industrial applicability (IA)	Claims	1-11	YE
	Claims		NO

2. Citations and explanations

Claims 1, 2

None of the documents describes providing a post-reaction gas cooling device, second fine carbon fiber separation and recovery device, and gas recycling device; the subject matter of these claims is novel. Also, the post-reaction gas cooling device condenses and separates condensing components and unreacted raw material and the like, such as water produced by the reaction in the gas, and thus achieves the effect of preventing clogging of the pipes, so it involves an inventive step. Claims 3-11

The inventions of these claims cite the aforesaid claims 1 and 2, and pertain to a method for producing fine carbon fiber with additional technical limitations, so like claims 1 and 2 they are novel and involve an inventive step.